

**Notice of Allowability**

Application No.

09/710,541

Applicant(s)

CARROLL, CHRISTOPHER PAUL

Examiner

Abdulhakim Nobahar

Art Unit

2132

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 06/19/2006.
2.  The allowed claim(s) is/are 1,3-12,14-21,26,28-31 and 224.

3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)  All    b)  Some\*    c)  None    of the:

1.  Certified copies of the priority documents have been received.
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  
(a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  
    1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.  
(b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of  
    Paper No./Mail Date \_\_\_\_\_.  
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
    Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
    of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
    Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

## DETAILED ACTION

1. This communication is in response to applicant's response received on June 19, 2006.
2. Claims 2, 13, 22-23, 25, 27, 29 and 32 are cancelled.

### ***Allowable Subject Matter***

1. Claims 1, 3-12, 14-21, 24, 26, 28 and 30-31 are allowed.
2. The following is an examiner's statement of reasons for allowance:

The primary reasons for the allowance of the independent claims 1, 12, 19 and 24 are the inclusion of the following limitations that are not found in the prior art and they are uniquely distinct features. The closest prior art is Aura (6,711,400 B1). Aura discloses an authentication method for a telecommunication system that a mobile subscriber is authenticated to both visiting and home networks and vice versa, i.e., the authenticity of the subscriber's identity is verified by the networks and the subscriber checks the authenticity of the networks' identities.

However, this art fails to anticipate or render the following limitations:

"Claim 1: receiving a vector of authentication information from the home environment network of the station, the vector including an indication of the vector's position in a sequence of vectors;

wherein transmitting information to the station that enables the station to compute the key stored at the service network comprises transmitting portions of the received vector of authentication information."

“Claim 12: maintaining an authentication vector sequence number at the station; receiving at the station from the service network an indication of an authentication vector sequence number maintained by the home environment network; and

comparing the authentication vector sequence number maintained by the home environment network with the received authentication vector sequence number maintained by the station.”

“Claim 19: wherein the vector of authentication information comprises: an indication of an authentication vector sequence number maintained by the home environment network, and a challenge and an expected response.”

“Claim 24: receiving from the one service network an indicator of key usage maintained by the one service network; and comparing the indicator of key usage maintained by the one service network with the indicator of key usage included in the one selected set of cryptographic information.”

3. The dependent claims 3-11, 14-18, 20-21, 26, 28 and 30-31 are allowed because they were originally found to include a unique feature not found in the closest abovementioned art.

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4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdulhakim Nobahar whose telephone number is 571-272-3808. The examiner can normally be reached on M-T 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abdulhakim Nobahar  
Examiner  
Art Unit 2132

June 23, 2006

*Gilberto Barron Jr.*  
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TECHNOLOGY CENTER 2100